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means for introducing a plurality of partial flows into a heat exchanger tube, the tube defining a longitudinal axis and

means for imparting to each of said partial flows a swirling motion about the longitudinal axis, wherein said means for imparting said swirling motion comprises elongated directing elements on said surfaces of said tube, said elongated directing elements are situated substantially parallel in a first row and a second row substantially parallel, wherein a line describing a longitudinal edge of each directing element in the first row is substantially tangent to a tip of each directing element in the second row.

22. (Amended) A method of effecting heat transfer in a heat exchanger, comprising:

introducing a plurality of partial flows into a heat exchanger tube with first and second opposing longitudinal primary heat-exchange surfaces, the tube defining a longitudinal axis and

imparting to each of said partial flows a swirling motion about the longitudinal axis through elongated directing elements situated in a first row and a second row substantially parallel, wherein a line describing a longitudinal edge of each directing element in the first row is substantially tangent to a tip of each directing element in the second row.

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